

## LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

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### CLAIMS

1. (Currently Amended) An apparatus for proving authentication when a user is not present, said apparatus comprising:

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a Web service client coupled to a Web service provider;  
an online wallet configured to store and selectively release financial  
information of ~~various users~~ said user; and

a discovery service;

wherein:

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said Web service client, ~~said service provider~~, said Web service provider,  
and said discovery service agree to work with each other; and

an act of releasing financial information of ~~the given~~ said user from the  
said online wallet to fund an online purchase transaction on behalf  
of ~~a given~~ said user without a live authenticated session of the  
~~given~~ said user with the Web service client is conditioned upon  
receiving proof of authority to conduct the requested online  
purchase transaction without the live authenticated session.

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2. (Original) The apparatus of Claim 1, wherein said Web service client comprises an assertion, said assertion comprising a statement that said user has an authenticated session.

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3. (Original) The apparatus of Claim 2, wherein said assertion is signed by an authority.

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4. (Original) The apparatus of Claim 3, wherein said authority is an identity provider of said discovery service.

5. (Original) The apparatus of Claim 2, wherein said statement comprises, but is not limited to, the following information:

- a system entity that made said assertion;
- 5 a system entity making a request;
- a system entity relying on said assertion; and
- a name identifier of said user in a namespace of said system entity that made said assertion to said system entity relying on said assertion.

10 6. (Original) The apparatus of Claim 5, wherein said system entity making said assertion is an identity provider of said discovery service.

7. (Original) The apparatus of Claim 5, wherein said system entity making a request is said Web service client.

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8. (Previously Presented) The apparatus of Claim 5, wherein said system entity relying on said assertion is said online wallet.

9. (Previously Presented) The apparatus of Claim 5, wherein said asserting  
20 party is said Web service client and said relying party is said online wallet.

10. (Previously Presented) The apparatus of Claim 2, wherein said statement is included in an extended assertion that is given to said online wallet at time of authentication.

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11. (Original) The apparatus of Claim 1, further comprising:  
means for said Web service client presenting to said discovery service a  
service assertion obtained from a second system entity, wherein  
said service assertion comprises a user presence statement; and  
30 means for said discovery service issuing a new service assertion  
comprising a new user presence statement, said new service

assertion and said new user presence statement associated with  
said second system entity.

12. (Original) The apparatus of Claim 11, wherein said second system entity is  
5 a second Web service client.

13. (Original) The apparatus of Claim 1, further comprising means for said  
discovery service recording and storing user statement information.

10 14. (Original) The apparatus of Claim 13, wherein said recorded and stored  
user statement information is in the form of a table.

15 15. (Previously Presented) The apparatus of Claim 1, further comprising  
means for said online wallet storing a ticket for checking said permission to  
request a service.

16. (Currently Amended) The apparatus of Claim 1, further comprising means  
for testing a request to said Web service provider while a said user is still  
present, wherein either or both said discovery service and said online wallet can  
20 perform real-time consent informational data collection from a said user without  
having actually performed a particular online transaction.

17. (Currently Amended) A method for proving authentication when a user is  
not present, said method comprising the steps of:

25 providing a Web service client coupled to a Web service provider;  
providing an online wallet configured to store and selectively release  
financial information of various users;  
providing a discovery service;  
wherein:  
30 said Web service client, ~~said service provider~~, said Web service provider,  
and said discovery service agree to work with each other; and

an act of releasing financial information of ~~the given~~ said user from the said online wallet to fund an online purchase transaction on behalf of ~~a given~~ said user without a live authenticated session of the ~~given~~ said user with the said Web service client is conditioned upon receiving proof of authority to conduct ~~the~~ said requested online purchase transaction without the said live authenticated session.

18. (Original) The method of Claim 17, wherein said Web service client comprises an assertion, said assertion comprising a statement that said user has an authenticated session.

19. (Original) The method of Claim 18, wherein said assertion is signed by an authority.

20. (Original) The method of Claim 19, wherein said authority is an identity provider of said discovery service.

21. (Original) The method of Claim 18, wherein said statement comprises, but is not limited to, the following information:

- a system entity that made said assertion;
- a system entity making a request;
- a system entity relying on said assertion; and
- a name identifier of said user in a namespace of said system entity that made said assertion to said system entity relying on said assertion.

22. (Original) The method of Claim 21, wherein said system entity making said assertion is an identity provider of said discovery service.

23. (Original) The method of Claim 21, wherein said system entity making a request is said Web service client.

24. (Previously Presented) The method of Claim 21, wherein said system entity relying on said assertion is said online wallet.

5 25. (Previously Presented) The method of Claim 21, wherein said asserting party is said Web service client and said relying party is said online wallet.

26. (Previously Presented) The method of Claim 18, wherein said statement is included in an extended assertion that is given to said online wallet at time of authentication.

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27. (Original) The method of Claim 17, further comprising the steps of:  
said Web service client presenting to said discovery service a service  
assertion obtained from a second system entity, wherein said  
service assertion comprises a user presence statement; and  
15 said discovery service issuing a new service assertion comprising a new  
user presence statement, said new service assertion and said new  
user presence statement associated with said second system  
entity.

20 28. (Original) The method of Claim 27, wherein said second system entity is a second Web service client.

29. (Original) The method of Claim 17, further comprising the step of said discovery service recording and storing user statement information.

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30. (Previously Presented) The method of Claim 29, wherein said recorded and stored user statement information is in the form of a table.

30 31. (Previously Presented) The method of Claim 17, further comprising the step of said online wallet storing a ticket for checking said permission to request a service.

32. (Currently Amended) The method of Claim 17, further comprising the step of testing a request to said online wallet while a user is still present, wherein either or both said discovery service and said online wallet can perform real-time consent informational data collection from a user without having actually performed a particular online transaction.

33. (Currently Amended) A method for invoking authenticated transactions on behalf of a user when the said user is not present, said method comprising the steps of:

a Web service provider, at a time when a said user is present, asking the said user if said Web service provider can perform a particular online transaction at a later point in time when the said user is not present, wherein if the said user indicates yes, then said Web service provider sending a notification to register with any of, or both of:

a trusted discovery service; and

a user activated online wallet confidentially storing financial data of the said user sufficient to fund the particular online transaction;

wherein while the said user is still present, the said user can be asked to provide informational content related to said particular online transaction; and

at a time when the said user is not present, the Web service provider initiating the particular online transaction and requesting the online wallet to release financial data of the said user.

34. (Currently Amended) The method of Claim 33, further comprising the step of a discovery service checking if the said user gave permission for contacting said online wallet when the said user is not present, and if permission is granted, allowing control to go to said online wallet.

35. (Currently Amended) The method of Claim 33, further comprising any of the steps of said Web service provider:

5           trusting said discovery service performed checking for permission and  
          accepting that if said discovery service indicates the said user gave  
          permission, then said online wallet performing said particular online  
          transaction; and  
          said online wallet deciding to perform checking for permission, and  
          subsequently performing said particular online transaction if said  
10          online wallet determines permission is granted.

36. (Original) The method of Claim 33, further comprising the step of providing a user capability of reviewing and modifying stored permissions.

15 37. (Original) The method of Claim 33, further comprising the step of providing robust security by having trust kept centrally in said discovery service.

38. (Previously Presented) The method of Claim 33, further comprising said discovery service supporting a plurality of different types of online wallet.

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39. (Currently Amended) An apparatus for invoking authenticated online transactions on behalf of a user when the said user is not present, comprising:

          a computer driven service provider, configured to perform operations  
          comprising, at a time when a said user is present, asking the said  
25          user if said service provider can perform a particular online  
          transaction at a later point in time when the said user is not present,  
          wherein if the said user indicates yes, then said service provider  
          sending a notification to register with any of, or both of:  
          a trusted discovery service; and

a user activated online wallet confidentially storing financial data of  
the said user sufficient to fund the particular online  
transaction;

5 wherein while the said user is still present, the said user can be asked to  
provide informational content related to said particular online  
transaction; and

10 wherein the said service provider is configured to perform further  
operations comprising, at a time when the said user is not present,  
initiating the particular online transaction and requesting the online  
wallet to release financial data of the said user.

40. (Currently Amended) The apparatus of Claim 39, further comprising  
means for a said discovery service checking if the said user gave permission for  
contacting said online wallet when the said user is not present, and if permission  
15 is granted, allowing control to go to said online wallet.

41. (Currently Amended) The apparatus of Claim 39, further comprising the  
~~online wallet~~, the online wallet being programmed to perform operations  
comprising:  
20 trusting said discovery service performed checking for permission and  
accepting that if said discovery service indicates the said user gave  
permission, then said online wallet performing said particular online  
transaction; and  
said online wallet deciding to perform checking for permission, and  
25 subsequently performing said particular online transaction if said  
online wallet determines permission is granted.

42. (Original) The apparatus of Claim 39, further comprising means for  
providing a user capability of reviewing and modifying stored permissions.

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43. (Original) The apparatus of Claim 39, further comprising means for providing robust security by having trust kept centrally in said discovery service.

44. (Previously Presented) The apparatus of Claim 39, further comprising means for said discovery service supporting a plurality of different types of online wallet.

45. (Currently Amended) A process for establishing user authentication when the a user is not present, comprising operations of:

10        at a time ~~went~~ when the said user is engaged in a live authenticated session with an online service provider, ~~the~~ said online service provider asking the said user for permission for the said online service provider to conduct at least one ~~subject~~ online purchase at a later point in time when ~~the~~ said user is no longer engaged in a live authenticated session with ~~the~~ said online service provider;

15        responsive to an affirmative answer, the said online service provider sending registration data to at least one of:

             a trusted discovery service;

             an online wallet responsible for providing finance information to

20        carry out the subject purchase;

             at a time when the said user is not present, the said online service provider initiating an online purchase transaction on behalf of the said user, and in response thereto, submitting a request to reveal finance information of the said user to implement the said online

25        purchase transaction, the request being submitted to the said trusted discovery service;

             responsive to the request, the said trusted discovery service performing at least one of the following operations:

             the said trusted discovery service checking for presence of the said registration data to determine if the said user gave prior

30        permission for conducting the requested online purchase

transaction with the said online wallet when the said user is not present, and if so, the said trusted discovery service authorizing the said online wallet to reveal the said requested finance information of the said user to complete the said requested online purchase transaction;

in the event registration data lies with the said online wallet, the said trusted discovery service forwarding the said request to the said online wallet for determination therein as to whether the said user gave prior permission for conducting the said requested online purchase transaction with the said online wallet.

46. (Currently Amended) The process of claim 45, the operations further comprising:

if the said user gave prior permission, the said online wallet revealing the said requested finance information of the said user to complete the said online purchase transaction even though the said user is not engaged in a live authenticated session with the said online service provider.

47. (Currently Amended) The process of claim 45, the operations further comprising:

responsive to the said trusted discovery service authorizing the said online wallet to complete the said online purchase transaction, the said online wallet verifying the said registration data as a condition to revealing the said requested finance information.

48. (Currently Amended) The ~~method~~ process of claim 45, where the ~~operation~~ the operation of submitting the said request to the said trusted discovery service comprises:

the said online service provider making the said request via client software representing the said user.

49. (Currently Amended) The process of claim 45, the said online service  
5 provider further comprising web services client software.

50. (Currently Amended) The process of claim 45, the operations further comprising:

10 while the said user is engaged in a live authenticated session with the said online service provider, conducting a test online purchase transaction short of actually completing the said online purchase transaction in order to verify that the said test online purchase transaction can be successfully carried out at a later time when the said user is not engaged in a live authenticated session with the said online service provider.

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